

09/870012
STN Search Summary

=> d his

FILE 'CAPLUS' ENTERED AT 14:44:26 ON 20 NOV 2002

L1 407 S ERYTHRAEA
L2 113 S L1 AND ANTIBIOTIC?
L3 70 S L2 AND PD<1999
L4 19 S L3 AND (POLYKETIDE (W) SYNTHASE)
L5 67 S L1 AND MUTANT
L6 0 S L5 AND A34
L7 29 S L5 AND ANTIBIOTIC
L8 14 S L7 AND PD<1999

L4 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2002 ACS
AN 1997:682654 CAPLUS

TI The Molecular Basis of Celmer's Rules: The Stereochemistry of the Condensation Step in Chain Extension on the Erythromycin Polyketide Synthase

AU Weissman, Kira J.; Timoney, Maire; Bycroft, Matthew; Grice, Peter; Hanefeld, Ulf; Staunton, James; Leadlay, Peter F.

SO Biochemistry (1997), 36(45), 13849-13855

L4 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2002 ACS
AN 1997:677565 CAPLUS

TI Acyltransferase domain substitutions in erythromycin polyketide synthase yield novel erythromycin derivatives

AU Ruan, Xiaoan; Pereda, Ana; Stassi, Diane L.; Zeidner, David; Summers, Richard G.; Jackson, Marianna; Shivakumar, Annapur; Kakavas, Stephan; Staver, Michael J.; Donadio, Stefano; Katz, Leonard

SO Journal of Bacteriology (1997), 179(20), 6416-6425

L4 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 1996:678078 CAPLUS

TI A hybrid modular polyketide synthase obtained by domain swapping

AU Oliynyk, Markyan; Brown, Murray J. B.; Cortes, Jesus; Staunton, James; Leadlay, Peter F.

SO Chemistry & Biology (1996), 3(10), 833-839

ANSWER 14 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 1993:619166 CAPLUS

TI Method of directing biosynthesis of specific polyketides

IN Katz, Leonard; Donadio, Stefano; Mcalpine, James B.

PA Abbott Laboratories, USA

SO PCT Int. Appl., 133 pp.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9313663	A1	19930722	WO 1992-US427	19920117 <--
AU 9212450	A1	19930803	AU 1992-12450	19920117 <--
AU 665526	B2	19960111		
EP 626806	A1	19941207	EP 1992-905082	19920117 <--
PRAI WO 1992-US427		19920117		

L4 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2002 ACS

AN 1993:164072 CAPLUS

TI 6-Deoxyerythronolide-B synthase 2 from Saccharopolyspora erythraea

. Cloning of the structural gene, sequence analysis and inferred domain structure of the multifunctional enzyme

AU Bevitt, Debra J.; Cortes, Jesus; Haydock, Stephen F.; Leadlay, Peter F.

SO European Journal of Biochemistry (1992), 204(1), 39-49

L4 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2002 ACS
AN 1992:507162 CAPLUS
TI Organization of the enzymic domains in the multifunctional polyketide synthase involved in erythromycin formation in *Saccharopolyspora erythraea*
AU Donadio, Stefano; Katz, Leonard
SO Gene (1992), 111(1), 51-60

L4 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2002 ACS
AN 1992:484379 CAPLUS
TI Biosynthesis of the erythromycin macrolactone and a rational approach for producing hybrid macrolides
AU Donadio, Stefano; Staver, Michael J.; McAlpine, James B.; Swanson, Susan J.; Katz, Leonard
SO Gene (1992), 115(1-2), 97-103

L4 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2002 ACS
AN 1991:222270 CAPLUS
TI An unusually large multifunctional polypeptide in the erythromycin-producing polyketide synthase of *Saccharopolyspora erythraea*
AU Cortes, Jesus; Haydock, Stephen F.; Roberts, Gareth A.; Bevitt, Debra J.; Leadlay, Peter F.
SO Nature (London, United Kingdom) (1990), 348(6297), 176-8

L8 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 1990:527617 CAPLUS
TI Cloning of genes involved in erythromycin biosynthesis from *Saccharopolyspora erythraea* using a novel actinomycete-*Escherichia coli* cosmid
AU Tuan, James S.; Weber, J. Mark; Staver, Michael J.; Leung, Judith O.; Donadio, Stefano; Katz, Leonard
SO Gene (1990), 90(1), 21-9

L8 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 1990:31322 CAPLUS
TI Cloning of genes governing the deoxysugar portion of the erythromycin biosynthesis pathway in *Saccharopolyspora erythraea* (*Streptomyces erythreus*)
AU Vara, Jesus; Lewandowska-Skarbek, Marlena; Wang, Yi Guang; Donadio, Stefano; Hutchinson, C. Richard
SO Journal of Bacteriology (1989), 171(11), 5872-81

=> d his
FILE 'CAPLUS' ENTERED AT 14:57:37 ON 20 NOV 2002

L1 626 S ERYTHRAEA OR ERYTHREUS
L2 218 S L1 AND (ANTIBIOTIC OR MACROLIDE)
L3 171 S L2 AND PD<1999
L4 31 S L3 AND MUTANT

L4 ANSWER 5 OF 31 CAPLUS COPYRIGHT 2002 ACS
AN 1997:757974 CAPLUS
TI Analysis of seven genes from the eryAI-eryK region of the erythromycin biosynthetic gene cluster in *Saccharopolyspora erythraea*
AU Gaisser, S.; Bohm, G. A.; Cortes, J.; Leadlay, P. F.
SO Molecular & General Genetics (1997), 256(3), 239-251

L4 ANSWER 19 OF 31 CAPLUS COPYRIGHT 2002 ACS
AN 1990:435510 CAPLUS
TI Molecular characterization of a gene from *Saccharopolyspora erythraea* (*Streptomyces erythraeus*) which is involved in erythromycin biosynthesis
AU Dhillon, N.; Hale, R. S.; Cortes, J.; Leadlay, P. F.
SO Molecular Microbiology (1989), 3(10), 1405-14

L4 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2002 ACS
AN 1985:610835 CAPLUS
TI Genetic analysis of erythromycin production in *streptomyces erythreus*
AU Weber, J. Mark; Wierman, Constance K.; Hutchinson, C. Richard
SO Journal of Bacteriology (1985), 164(1), 425-33

L4 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2002 ACS
AN 1984:66522 CAPLUS
TI Variability in nutritional requirement of an improved strain of *Streptomyces erythreus* for erythromycin production
AU Mandal, S. K.; Chakraborty, B.; Roy, D. K.
SO Indian Journal of Experimental Biology (1983), 21(11), 607-10

L4 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2002 ACS
AN 1977:171772 CAPLUS
TI 3-O-(2",6"-dideoxy-.alpha.-L-ribo-hexopyranosyl)erythronolide B and 3-O-(2",6"-dideoxy-.alpha.-L-arabino-hexopyranosyl)erythronolide B, aberrant erythromycin biogenetic metabolites with defective sugar moieties
AU Collum, Paulette; Egan, Richar S.; Goldstein, Alma W.; Martin, Jerry R.
SO Tetrahedron (1976), 32(20), 2375-8

L4 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2002 ACS
AN 1973:121160 CAPLUS
TI Limiting reactions in activation of acyl units in biosynthesis of macrolide antibiotics
AU Raczynska-Bojanowska, Konstancja; Ruczaj, Zbigniew; Sawnor-Korszynska, Danuta; Rafalski, Andrzej
SO Antimicrob. Agents Chemother. (1973), 3(2), 162-7

L4 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2002 ACS
AN 1971:139484 CAPLUS
TI Biosynthesis of erythromycin C by *Streptomyces erythreus*
AU Ostrowska-Krysiak, Barbara
SO Acta Microbiol. Pol., Ser. B (1971), 3(1), 23-7

WEST Search History

DATE: Wednesday, November 20, 2002

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=USPT,DWPI; PLUR=YES; OP=OR</i>			
L8	mutant with a34	2	L8
L7	mutant with a43	1	L7
L6	erythraea with mutant with a43	0	L6
L5	L4 and (erythraea same mutant)	18	L5
L4	L3 and synthase	59	L4
L3	L2 and polyketide	61	L3
L2	L1 and macrolide	78	L2
L1	erythraea and antibiotic	114	L1

END OF SEARCH HISTORY